Canon

PowerShot ELPH 300 HS / IXUS 220 HS

Camera User Guide

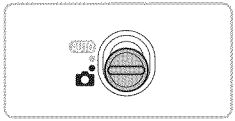
- Make sure you read this guide, including the "Safety Precautions" section, before using the camera.
- Reading this guide will help you learn to use the camera properly.
- Store this guide safely so that you can use it in the future.

ENGLISH

6

Using Various Functions for Shooting Movies

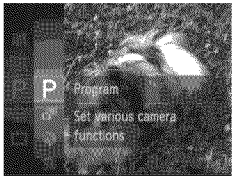
This chapter serves as a more advanced version of the "Shooting Movies" and "Viewing Movies" sections in Chapter 1, and explains how to use various functions for shooting and viewing movies.



- This chapter assumes that you have set the mode switch to 📷.
- The latter half of the chapter explaining movie playback and editing assumes that you have pressed the ▶ button to enter Playback mode.

Shooting Various Kinds of Movies

Just as with still images, you can let the camera select the best settings for the scene or add various effects while shooting movies.



1 Choose a Shooting mode.

- Follow Steps 1 – 2 on p. 64 to choose a Shooting mode.

2 Shoot.

- Press the movie button.
- Depending on the Shooting mode or movie image quality (p. 112) you choose, black bars may appear on the top and bottom of the screen. These areas will not be recorded when shooting.
- To stop shooting the movie, press the movie button again.

	Portrait	p. 64		Color Swap	p. 72
	Miniature Effect	p. 109		Beach	p. 65
	Monochrome	p. 73		Underwater	p. 65
	Super Vivid	p. 68		Foliage	p. 65
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Other Shooting Modes

You can shoot the following kinds of movies in mode.

	Super Slow Motion Movie	Shoot fast moving subjects and play them back in slow motion (p. 110).

- You can also record movies in other Shooting modes by pressing the movie button.
- Certain settings made in the FUNC. and Shooting menus will automatically change to match settings for shooting movies.
- Even in mode, you can shoot still images when you press the shutter button. However, this is not possible while shooting a movie.

Shoot Movies That Look Like a Miniature Model (Miniature Effect)

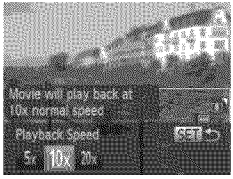
You can shoot movies that look like moving miniature models. You create the miniature model effect by choosing the upper and lower portions of the scene that will be blurred, and the playback speed, which makes people and objects in the scene move quickly during playback. Audio will not be recorded.

1 Choose .

- Follow Steps 1 – 2 on p. 64 to choose .
- A white frame (the area that will not be blurred) appears on the screen.

2 Choose the area to keep in focus.

- Press the MENU button for more than one second.
- Move the zoom lever to change the frame size, and press the ▲▼ buttons to change the frame position.



3 Choose a playback speed.

- Press the (FUNC SET) button.
- Press the ◀▶ buttons to choose a playback speed.
- Press the (FUNC SET) button to complete the setting and restore the shooting screen.

4 Shoot.

- Press the movie button.
- To stop shooting the movie, press the movie button again.

Playback Speeds and Estimated Playback Times (for 1 Min. Clips)

Speed	Playback Time
5x	Approx. 12 sec.
10x	Approx. 6 sec.
20x	Approx. 3 sec.

- The image quality will be fixed at 640 when an aspect ratio of **4:3** is chosen, and 1280 when an aspect ratio of **16:9** is chosen (p. 90).
- If you press the ◀▶ buttons in Step 2, the frame will switch to vertical orientation, and you can change the area to focus in by pressing the ◀▶ buttons again. Pressing the ▲▼ buttons will return the frame to horizontal orientation.
- Holding the camera vertically will change the orientation of the frame.
- Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.

Shooting Super Slow Motion Movies

You can shoot fast moving subjects and play them back in slow motion. Audio will not be recorded.

1 Choose .

- Follow Steps 1 – 2 on p. 64 to choose .

2 Choose a frame rate.

- Press the (FUNC. SET) button to choose 240, then press the (FUNC. SET) button again.
- Choose a frame rate (the number of frames per second), then press the (FUNC. SET) button.

3 Shoot.

- Press the movie button.
- ▶ The bar showing the shooting time will appear. Maximum clip length is approx. 30 sec.
- To stop shooting the movie, press the movie button again.

Frame Rates and Playback Times (for 30 Sec. Clips)

Frame Rate	Playback Time
240 240 fps	Approx. 4 min.
120 120 fps	Approx. 2 min.

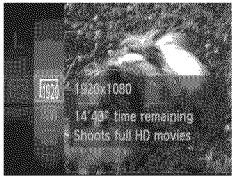
Viewing super slow motion movies

- The movie will play back in slow motion when you follow Steps 1 – 3 on p. 31.
- You can use the included software to change the playback speed of movies shot in mode. Refer to the *Software Guide* for details.

- The recording pixel setting will be fixed at 320 when shooting in 240, and 640 when shooting in 120.
- The focus, exposure and white balance will be set when the movie button is pressed.

Changing the Image Quality

You can choose among 4 different image quality settings.



1 Choose the image quality setting.

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose 1920, then press the (FUNC SET) button again.

2 Choose an option.

- Press the ▲▼ buttons to choose an option, then press the (FUNC SET) button.
- The option you set will appear on the screen.

Image Quality and Shooting Time per Memory Card

Image Quality	Recording Pixels, Frame Rate	Content	Memory Card Capacity	
			4 GB	16 GB
1920	1920 x 1080 pixels, 24 frames/sec.	For shooting full high-definition movies.	Approx. 14 min. 34 sec.	Approx. 59 min. 40 sec.
1280	1280 x 720 pixels, 30 frames/sec.	For shooting high-definition movies.	Approx. 20 min. 43 sec.	Approx. 1 hr. 24 min. 54 sec.
640	640 x 480 pixels, 30 frames/sec.	The image quality will be higher when compared with 320, but the recording time will be shorter.	Approx. 43 min. 43 sec.	Approx. 2 hr. 59 min. 3 sec.
320	320 x 240 pixels, 30 frames/sec.	Since the file size is small, shooting time will increase, but the image quality will decrease.	Approx. 1 hr. 58 min. 19 sec.	Approx. 8 hr. 4 min. 30 sec.

- Based on Canon's testing standards.
- Recording will automatically stop when the clip file size reaches 4 GB, or when the recording time reaches approximately 10 minutes when shooting in 1920 or 1280, and approximately 1 hour when shooting in 640 or 320.
- Recording may stop even if the maximum clip length has not been reached on some memory cards. SD Speed Class 6 or higher memory cards are recommended.

Black bars will appear on the top and bottom of the screen in 1920 or 1280. These areas will not be recorded when shooting.

Other Shooting Functions

The following functions can be used in the same way as for still images. Some functions, however, may not be available or may not have an effect depending on the Shooting mode.

- **Zooming in More Closely On Subjects**
  The sound of zoom operations will be recorded.
- **Using the Self-Timer (p. 58)**
- **Using the Self-Timer to Prevent Camera Shake (p. 59)**
- **Adjusting the White Balance (p. 86)**
- **Changing the Tone of an Image (My Colors) (p. 92)**
- **Shooting Using a TV as the Display (p. 105)**
- **Shooting with the AF Lock (p. 99)**
- **Turning Off the AF Assist Beam (p. 173)**
- **Displaying Grid Lines (p. 174)**
- **Changing the IS-Mode Settings (p. 175)**

Editing

You can trim the beginnings and ends of recorded movies.

Movie Editing Panel

Movie Editing Bar

1 Choose ✂.

- Follow Steps 1 – 3 on p. 31 to choose ✂, then press the (FUNC SET) button.
- The movie editing panel and the movie editing bar will appear.

2 Set the editing range.

- Press the ▲▼ buttons and choose ✂ or ✂.
- If you press the ◀▶ buttons to move ▮, ✂ will appear at points where the movie can be edited. If you choose ✂, you can trim the beginning of the movie from ✂. If you choose ✂, you can trim the end of the movie from ✂.
- Even if you move ▮ to a point other than a ✂, only the portion from the nearest ✂ to the left will be trimmed when ✂ is chosen. Only the portion from the nearest ✂ to the right will be trimmed when ✂ is chosen.

3 Check the edited movie.

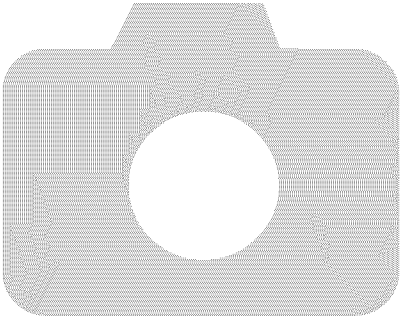
- Press the ▲▼ buttons to choose ▶ (Play), then press the (FUNC SET) button. The edited movie will play.
- To edit the movie again, repeat Step 2.
- To cancel editing, press the ▲▼ buttons to choose ↩. After pressing the (FUNC SET) button, press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button again.

4 Save the edited movie.

- Press the ▲▼ buttons to choose [ ], then press the (FUNC SET) button.
- Press the ◀▶ buttons to choose [New File], then press the (FUNC SET) button.

▶ The movie will be saved as a new file.

- When [Overwrite] is chosen in Step 4, the unedited movie is overwritten with the edited movie, erasing the original.
- When there is not enough space left on the memory card, only [Overwrite] can be chosen.
- If the battery is depleted partway through saving, the edited movie clips may not be saved.
- When editing movies, you should use a fully charged battery, or an AC adapter kit (sold separately) (p. 38).



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Using Various Playback and Editing Functions

This chapter explains various ways to play back and edit images.

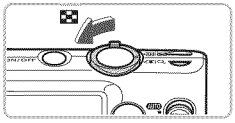
- Press the [▶] button to enter Playback mode before operating the camera.

- It may not be possible to play back or edit images that have been edited on a computer, have had their file names changed, or have been taken on a different camera.
- The edit function (pp. 146 – 150) cannot be used if the memory card does not have enough free space available.

Quickly Searching Images

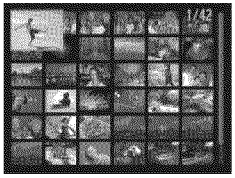
Searching Images Using Index Display

Displaying multiple images at the same time lets you quickly find the image you want.



1 Move the zoom lever toward .

- Images will display in an index.
- The number of images increase each time you move the lever toward .
- The number of images decrease each time you move the lever toward Q.

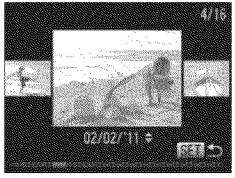


2 Choose an image.

- Press the ▲▼◀▶ buttons to choose an image.
- An orange frame appears on the chosen image.
- Press the (FUNC SET) button to display the chosen image by itself.

Searching Images by Scrolling

Pressing the ◀▶ buttons for more than 1 second will display images in a line letting you quickly search them. You can also jump by the shooting date (Scroll Display).



Choose an image.

- If you set the camera to single image playback and press the ◀▶ buttons for more than 1 second, the screen at the left will appear. Press the ◀▶ buttons to choose an image.
- Press the (FUNC SET) button to restore single image playback.
- Press the ▲▼ buttons during scroll display to search images by the shooting date.

To turn off this effect, press the MENU button to choose [Scroll Display] from the ▶ tab, then choose [Off].

Viewing Movies Made with Movie Digest

You can select movies made in mode (p. 67) by date for viewing.

1 Choose .

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose , then press the (FUNC SET) button again.

2 Choose a movie date.

- Press the ▲▼ buttons.

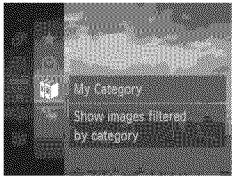
3 Play the movie.

- Press the (FUNC SET) button.

▶ The movie will play.

Viewing Images in Filtered Playback

When there are many images on the memory card, you can filter and display them by a specified filter. You can also protect (p. 134) or delete (p. 138) all images at once while filtered.



1 Choose .

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose , then press the (FUNC SET) button again.

2 Choose a filter.

- Press the ▲▼ buttons to choose a filter, then press the (FUNC SET) button.

3 View the filtered images.

- Press the ▲▼ buttons to choose a filter for playback, then press the (FUNC SET) button (except for ★).
- Filtered playback starts and a yellow frame appears.
- If you press the ◀▶ buttons, only the chosen target images will display.
- If you choose in Step 2, filtered playback will be canceled.

Search filters

★ Favorites	Displays the images tagged as favorites (p. 140)
Shot Date	Displays the images shot on a specified date
My Category	Displays the images of a specified category (p. 142)
Still image/Movie	Displays still images, movies or movies made in mode.

What if you cannot choose a filter?

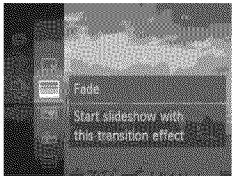
Filters that do not have any corresponding images cannot be chosen.

Filtered playback

In filtered playback (Step 3), you can view filtered images with "Quickly Searching Images" (p. 118), "Viewing Slideshows" (p. 122), and "Magnifying Images" (p. 125). You can process all filtered images at once while performing operations in "Protecting Images" (p. 134), "Erasing Images" (p. 138), or "Choosing Images for Printing (DPOF)" (p. 159), by choosing all of the filtered images.
However, if you change the category (p. 142), or edit an image and save it as a new image (p. 146), a message will appear, and filtered playback will cancel.

Viewing Slideshows

You can automatically play back images recorded to a memory card. Each image displays for approximately 3 seconds.



1 Choose 🎞.

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose 🎞, then press the (FUNC SET) button again.

2 Choose a transition effect.

- Press the ▲▼ buttons to choose an effect, then press the (FUNC SET) button.
- The slideshow will start a few seconds after [Loading image...] appears.
- In filtered playback (p. 120), only images matching a filter play back. In group playback (p. 126), only grouped images play back.
- You can pause/restart a slideshow by pressing the (FUNC SET) button again.
- Press the MENU button to stop the slideshow.

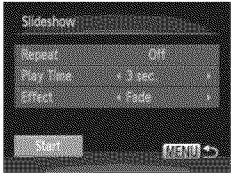
- If you press the ◀▶ buttons during playback, the image will switch. If you keep the ◀▶ buttons pressed, you can fast-forward through images.
- The power saving function (p. 52) does not work during slideshows.

Changing Settings

You can set a slideshow to repeat, or change transition effects and the time that slideshow images are displayed. You can choose from 6 transition effects when switching between images.

1 Choose [Slideshow].

- Press the MENU button to choose [Slideshow] from the ▶ tab, then press the (FUNC SET) button.



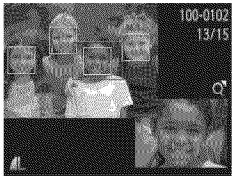
2 Choose a setting.

- Press the ▲▼ buttons to choose an item, then press the ◀▶ buttons to adjust the setting.
- If you choose [Start] and press the (FUNC SET) button, the slideshow starts with your settings.
- Press the MENU button to restore the menu screen.

You cannot change [Play Time] if [Bubble] is chosen in [Effect].

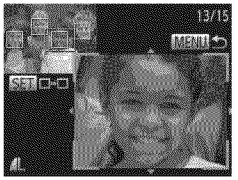
Checking the Focus

You can magnify the area of a recorded image that was inside the AF Frame to check the focus.



1 Press the ▼ button to switch to the focus check display (p. 44).

- A white frame will appear where the AF frame was when the focus was set.
- A gray frame will appear on a face detected during playback.
- The area within the orange frame appears magnified.



2 Switch frames.

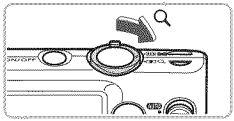
- Move the zoom lever toward Q once.
- The screen shown on the left will appear.
- Press the (FUNC SET) button to move to a different frame when multiple frames appear.

3 Change the magnification level or location.

- Use the zoom lever to change the display size, and the ▲▼◀▶ buttons to change the display position while checking the focus.
- Press the MENU button to reset the display to Step 1.

The focus check display is not available for movies.

Magnifying Images



Approximate Location of Displayed Area

Move the zoom lever toward Q.

- The display will zoom in on the image. If you continue to hold the zoom lever, it will zoom in up to a maximum factor of approximately 10x.
- If you press the ▲▼◀▶ buttons, you can move the location of the displayed area.
- Move the zoom lever toward ▪ to zoom out, or continue to hold it to return to single image playback.
- When SET appears on the screen, press the (FUNC SET) button to switch to SET. Press the ◀▶ buttons to switch between images while zoomed. Press the (FUNC SET) button again to return to the original setting.

- In magnified display, pressing the MENU button restores single image playback.
- Movies cannot be magnified.

Viewing Each Image in a Group

Grouped images taken in mode (p. 80) can also be viewed individually.

1 Choose an image group.

- Press the ◀▶ buttons to choose an image that displays SET.

2 Choose .

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose , then press the (FUNC SET) button again.

3 View each image in the group.

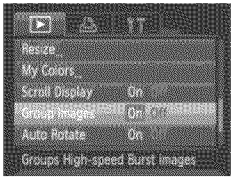
- If you press the ◀▶ buttons only the images in the group will be displayed.
- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose , then press the (FUNC SET) button again to cancel group playback.

Group playback

In group playback (Step 3 above), you can use the FUNC. menu functions that appear when you press the (FUNC SET) button, as well as search (p. 118) and magnify (p. 125) images. You can process all the images in a group at once while performing operations in "Protecting Images" (p. 134), "Erasing Images" (p. 138), or "Printing from the Print List (DPOF)" (p. 159), by choosing a set of grouped images.

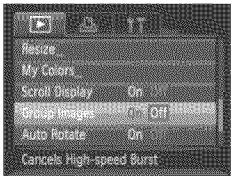
Ungrouping Images

Grouped images taken in mode can be ungrouped and viewed individually.



1 Choose [Group Images].

- Press the MENU button to choose [Group Images] from the ▶ tab.



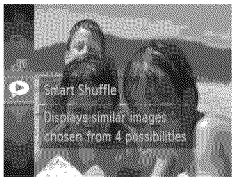
2 Choose a setting.

- Press the ◀▶ buttons to choose [Off].
- Press the MENU button to complete the setting and restore single image playback.
  - Grouped images taken in mode are ungrouped and appear individually.
- To regroup the images, follow the steps above and select [On].

Grouping cannot be canceled while viewing images individually (p. 126).

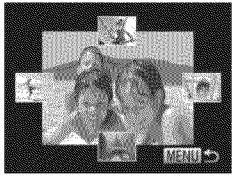
Displaying Various Images (Smart Shuffle)

The camera will choose four images based on the displayed image.
If you choose one of those images, the camera will select four more images letting you enjoy playing back images in an unexpected order.
This will work best if you take many shots of various scenes.



1 Choose .

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose , then press the (FUNC SET) button again.
- Four images will appear as possibilities.



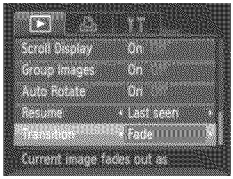
2 Choose an image.

- Press the ▲▼◀▶ buttons to choose the image you want to view next.
- The chosen image will be displayed in the middle, and the next four possibilities will appear.
- Press the (FUNC SET) button to display the middle image at full size. Press the (FUNC SET) button again to restore the original display.
- Press the MENU button to restore single image playback.

- Only still images shot with this camera will play back in Smart Shuffle.
- is not available in the following situations:
  - If there are less than 50 images taken with this camera on the memory card
  - If you play back images not supported by Smart Shuffle
  - During filtered playback

Changing Image Transitions

You can choose from 3 transition effects when switching between images in single image playback.



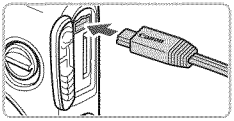
Choose [Transition].

- Press the MENU button to choose [Transition] from the ▶ tab, then press the ◀▶ buttons to choose a transition effect.

Viewing Images on a Standard TV

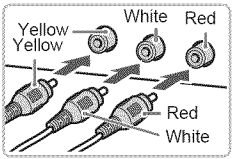
Using the supplied stereo AV cable (p. 2), you can connect the camera to a TV to view images you have shot.

1 Turn off the camera and TV.

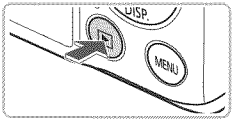


2 Connect the camera to the TV.

- Open the camera's terminal cover and fully insert the cable plug into the camera's terminal.
- Insert the cable plug fully into the video input terminals as shown in the illustration.



3 Turn on the TV and switch it to the input the cable is connected to.



4 Turn on the camera.

- Press the ▶ button to turn on the camera.
- The image will appear on the TV (nothing will appear on the screen of the camera).
- After you finish, turn off the camera and TV, and unplug the cable.

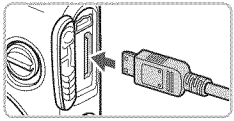
What if the images don't display correctly on the TV?

Images will not display correctly if the camera's video output setting (NTSC/PAL) does not match the TV system. Press the MENU button and choose [Video System] from the 🔧 tab to switch to the correct video system.

Viewing Images on a High-Definition TV

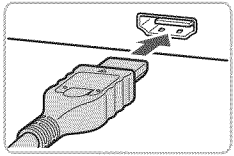
Using the separately sold HDMI Cable HTC-100, you can connect the camera to an HD TV to view images you have shot.

1 Turn off the camera and TV.



2 Connect the camera to the TV.

- Open the camera's terminal cover and fully insert the cable plug into the camera's terminal.
- Fully insert the cable plug into the TV's HDMI input.



3 Display images.

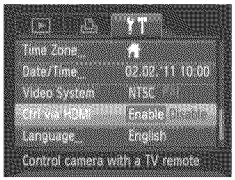
- Follow Steps 3 and 4 on p. 130 to display the images.

The supplied stereo AV and interface cables and the separately sold HDMI Cable HTC-100 cannot be plugged into the camera at the same time. Doing so could cause the camera to malfunction.

Operation sounds will not play when connected to an HD TV.

Using a TV Remote to Control the Camera

When you connect the camera to an HDMI CEC compatible TV, you can use the TV's remote control to operate the camera and play back images or view slideshows.
You may need to make settings on some TVs. For details, refer to the user guide supplied with the TV.



1 Choose [Ctrl via HDMI].

- Press the MENU button to choose [Ctrl via HDMI] from the tab, then press the ◀▶ buttons to choose [Enable].

2 Connect the camera to the TV.

- Follow Steps 1 – 2 on p. 131 to connect the camera to the TV.

3 Display images.

- Turn on the TV and press the camera's ▶ button.
- The image will appear on the TV (nothing will appear on the screen of the camera).

4 Use the TV's remote control.

- Press the remote control's ◀▶ buttons to choose an image.
- Press the OK/Select button to display the camera control panel. Press the ◀▶ buttons to choose an item, then press the OK/Select button again.

Summary of the Camera Control Panel Displayed on the TV

↩	Return	Closes the menu.
▣	Group playback	Displays groups of High-speed Burst images (only appears when grouped images are chosen).
▶	Play movie	Plays a movie (only appears when a movie is chosen).
◈	Slideshow	Plays back images automatically. During playback, you can press the remote control's ◀▶ buttons to switch images.
⊞	Index playback	Displays images in an index.
DISP.	Change display	Changes the screen display (p. 44).

- If you operate the controls on the camera, you will not be able to control the camera with the TV's remote control until you return to single image playback.
- Some TVs may not be able to control the camera properly even though they are HDMI CEC compatible.

Protecting Images

You can protect important images so that they cannot be accidentally erased with the camera (pp. 28, 138).

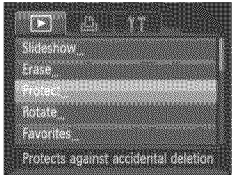
Protect the image.

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose 🔑, then press the (FUNC SET) button again.
- [Protected] will appear on the screen.
- To unlock an image, follow the step above to choose 🔑 again, then press the (FUNC SET) button.

If you format the memory card (pp. 22, 167), protected images will also be erased.

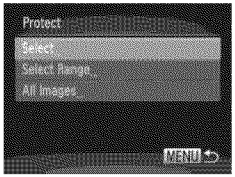
Protected images cannot be erased with the camera's erase function. To erase an image, cancel protection settings first.

Using the Menu



1 Choose [Protect].

- Press the MENU button to choose [Protect] from the ▶ tab, then press the (FUNC SET) button.



2 Choose a selection method.

- Press the ▲▼ buttons to choose a selection method, then press the (FUNC SET) button.
- Press the MENU button to complete the setting and restore the menu screen.

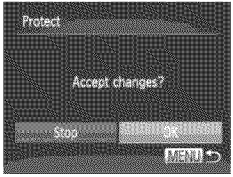
Choosing Images Individually

1 Choose [Select].

- Follow Step 2 on p. 134 to choose [Select], then press the (FUNC SET) button.

2 Choose images.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.
- ⊶ will appear on the screen.
- Press the (FUNC SET) button again to deselect the image. ⊶ will disappear.
- To choose additional images, repeat the above procedure.



3 Protect the image.

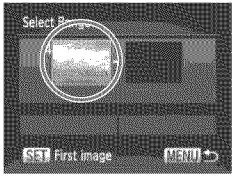
- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button.

If you switch to Shooting mode or turn off the power before performing the operations in Step 3, images will not be protected.

Select Range

1 Choose [Select Range].

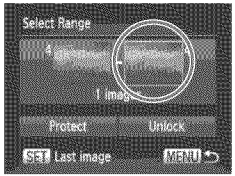
- Follow Step 2 on p. 134 to choose [Select Range], then press the (FUNC SET) button.



2 Choose a starting image.

- Press the (FUNC SET) button.

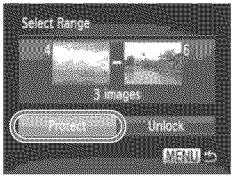
- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.



3 Choose an ending image.

- Press the ▶ button to choose [Last image], then press the (FUNC SET) button.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.
- You cannot choose images before the first image.



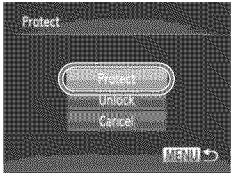
4 Protect images.

- Press the ▼ button to choose [Protect], then press the (FUNC SET) button.

Choose All Images

1 Choose [All Images].

- Follow Step 2 on p. 134 to choose [All Images], then press the (FUNC SET) button.



2 Protect images.

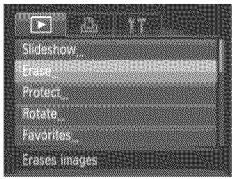
- Press the ▲▼ buttons to choose [Protect], then press the (FUNC SET) button.

You can unlock groups of protected images if you choose [Unlock] in Step 4, while in [Select Range] or Step 2 while in [All Images].

Erasing Images

You can choose images and then erase them in groups. Since erased images cannot be recovered, exercise adequate caution before erasing. Protected images (p. 134) cannot be erased.

Choose a Selection Method



1 Choose [Erase].

- Press the MENU button to choose [Erase] from the ▶ tab, then press the (FUNC SET) button.

2 Choose a selection method.

- Press the ▲▼ buttons to choose a selection method, then press the (FUNC SET) button.
- Press the MENU button to restore the menu screen.

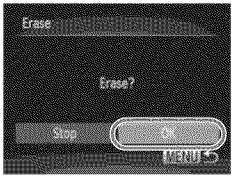
Choosing Images Individually

1 Choose [Select].

- Follow Step 2 above to choose [Select], then press the (FUNC SET) button.

2 Choose an image.

- If you follow Step 2 on p. 135 to choose images, a ✓ will appear on the screen.
- Press the (FUNC SET) button again to deselect the image. ✓ will disappear.
- To choose additional images, repeat the above procedure.



3 Erase.

- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button.

Select Range

1 Choose [Select Range].

- Follow Step 2 on p. 138 to choose [Select Range], then press the (FUNC SET) button.

2 Choose images.

- Follow Steps 2 and 3 on p. 136 to choose images.

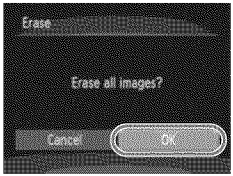
3 Erase.

- Press the ▼ button to choose [Erase], then press the (FUNC SET) button.

Choose All Images

1 Choose [All Images].

- Follow Step 2 on p. 138 to choose [All Images], then press the (FUNC SET) button.



2 Erase.

- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button.

Tagging Images as Favorites

When you tag images as favorites, you can easily categorize just those images. You can also filter out just those images for viewing, protecting or erasing (p. 120).

Make the setting.

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose ★, then press the (FUNC SET) button again.

- [Tagged as Favorite] will appear on the screen.
- To unlock an image, follow the step above to choose ★ again, then press the (FUNC SET) button.

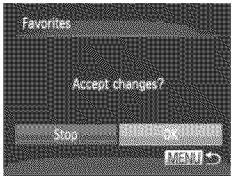
Using the Menu

1 Choose [Favorites].

- Press the MENU button to choose [Favorites] from the ▶ tab, then press the (FUNC SET) button.

2 Choose an image.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.
- ▶ [★] will appear on the screen.
- Press the (FUNC SET) button again to untag the image. [★] disappears.
- To choose additional images, repeat the above procedure.



3 Complete the setting.

- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons to choose [OK], then press the (FUNC. SET) button.

If you switch to Shooting mode or turn off the power before completing the setting in Step 3, images will not be tagged as favorites.

If you use Windows 7 or Windows Vista and transfer tagged images to the computer, they will be given a star rating of 3 (★★★☆☆) (except for movies).

Organizing Images by Category (My Category)

You can organize images into categories. You can display the images in a category in filtered playback (p. 120) and process all images at once by using the functions below.

- "Viewing Slideshows" (p. 122), "Protecting Images" (p. 134), "Erasing Images" (p. 138), "Choosing Images for Printing (DPOF)" (p. 159)

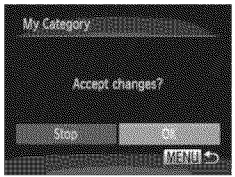
Images are automatically categorized by shooting condition as they are shot.
- : Images with detected faces, or images shot in or .
- : Images detected as , or in mode, or images shot in or .
- : Images shot in , or .

1 Choose .

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose , then press the (FUNC SET) button again.

2 Choose a category.

- Press the ▲▼ buttons to choose a category, then press the (FUNC SET) button.
- ✓ will appear on the screen.
- Press the (FUNC SET) button again to deselect the image. ✓ will disappear.



3 Complete the setting.

- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button.

If you switch to Shooting mode or turn off the power before completing the setting in Step 3, images will not be tagged as My Category.

Using the Menu

1 Choose [My Category].

- Press the MENU button to choose [My Category] from the ▶ tab, then press the (FUNC SET) button.

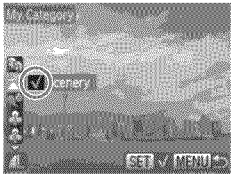
2 Choose a selection method.

- Press the ▲▼ buttons to choose a selection method, then press the (FUNC SET) button.
- Press the MENU button to restore the menu screen.

Choosing Images Individually

1 Choose [Select].

- Follow Step 2 above to choose [Select], then press the (FUNC SET) button.

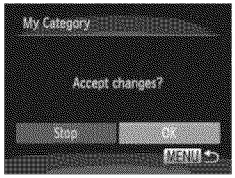


2 Choose an image.

- Press the ◀▶ buttons to choose an image.

3 Choose a category.

- Press the ▲▼ buttons to choose a category, then press the (FUNC SET) button.
- ✓ will appear on the screen.
- Press the (FUNC SET) button again to deselect the image. ✓ will disappear.
- To choose additional images, repeat the above procedure.



4 Complete the setting.

- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button.

If you switch to Shooting mode or turn off the power before completing the setting in Step 4, images will not be tagged as My Category.

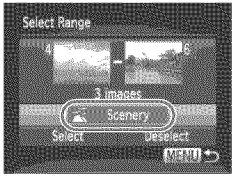
Select Range

1 Choose [Select Range].

- Follow Step 2 on p. 143 to choose [Select Range], then press the (FUNC SET) button.

2 Choose images.

- Follow Steps 2 and 3 on p. 136 to choose images.



3 Choose a category.

- Press the ▼ button to choose an item, then press the ◀▶ buttons to choose a category.

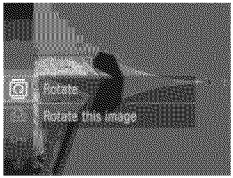
4 Complete the setting.

- Press the ▼ button to choose [Select], then press the (FUNC SET) button.

If you choose [Deselect] in Step 4, you can deselect all of the images in the [Select Range] category.

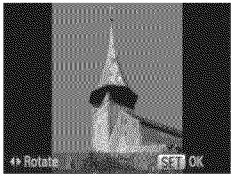
Rotating Images

You can change the orientation of an image and save it.



1 Choose 🔄.

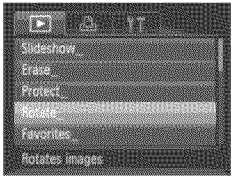
- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose 🔄, then press the (FUNC SET) button again.



2 Rotate the image.

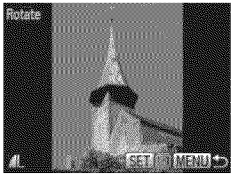
- Press the ◀▶ buttons to rotate the image 90° in the chosen direction.
- Press the (FUNC SET) button to complete the setting.

Using the Menu



1 Choose [Rotate].

- Press the MENU button to choose [Rotate] from the ▶ tab, then press the (FUNC SET) button.



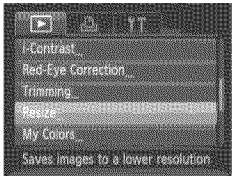
2 Rotate the image.

- Press the ◀▶ buttons to choose an image.
- ▶ The image will rotate 90° with each press of the (FUNC SET) button.
- Press the MENU button to restore the menu screen.

- Movies shot at 1920 or 1280 cannot be rotated.
- Images cannot be rotated (p. 176) if [Auto Rotate] is set to [Off].

Resizing Images

You can resize images to a lower pixel setting and save the resized image as a separate file.

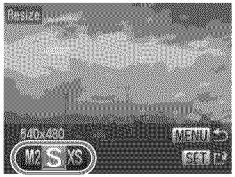


1 Choose [Resize].

- Press the MENU button to choose [Resize] from the ▶ tab, then press the (FUNC SET) button.

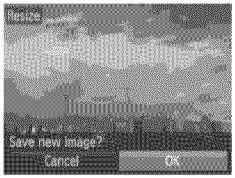
2 Choose an image.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.



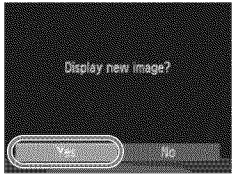
3 Choose an image size.

- Press the ◀▶ buttons to choose an option, then press the (FUNC SET) button.
- [Save new image?] will appear on the screen.



4 Save the new image.

- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button.
- The image will be saved as a new file.



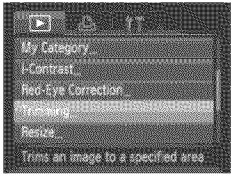
5 Display the new image.

- When you press the MENU button, [Display new image?] will appear on the screen.
- Press the ◀▶ buttons to choose [Yes], then press the (FUNC SET) button.
- The saved image will be displayed.

- You cannot resize an image to a larger size.
- Images saved as XS in Step 3 cannot be edited.
- Movies cannot be edited.

Trimming

You can cut out a portion of a recorded image and save it as a new image file.



Trimming Area

Trimming Area Display

Recorded pixels after trimming

1 Choose [Trimming].

- Press the MENU button to choose [Trimming] from the ▶ tab, then press the (FUNC SET) button.

2 Choose an image.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.

3 Adjust the trimming area.

- A frame will appear around the portion of the image to be trimmed.
- The original image will display in the upper left and the trimmed image will display in the lower right.
- If you move the zoom lever, you can change the frame size.
- If you press the ▲▼◀▶ buttons, you can move the frame.
- If you press the (FUNC SET) button, you can change the frame orientation.
- Press the MENU button.

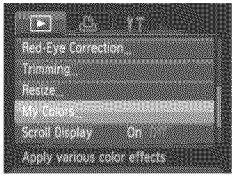
4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 146.

- Images recorded at a pixel setting of S (p. 62), or images resized to XS (p. 146) cannot be edited.
- Images that can be trimmed will have the same width and height ratio after trimming.
- The number of recorded pixels in a trimmed image will be smaller than before trimming.
- Movies cannot be edited.

Adding Effects with the My Colors Function

You can change the color of an image and save it as a separate image. Refer to p. 92 for details on each menu item.

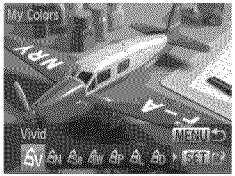


1 Choose [My Colors].

- Press the MENU button to choose [My Colors] from the ▶ tab, then press the (FUNC SET) button.

2 Choose an image.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.



3 Choose an option.

- Press the ◀▶ buttons to choose an option, then press the (FUNC SET) button.

4 Save as a new image and display.

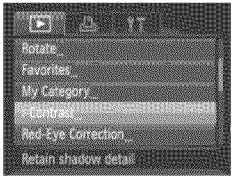
- Follow Steps 4 and 5 on p. 146.

If you repeatedly change the color of the same image, the quality will gradually deteriorate and you may not achieve the expected color.

- The color of images changed with this function may vary from those recorded with the My Colors function (p. 92).
- My Colors settings cannot be applied to movies.

Correcting the Brightness (i-Contrast)

The camera can detect areas in an image, such as faces or backgrounds, that are too dark and automatically adjust them to the optimum brightness. Also, when the overall image is lacking in contrast, the camera will automatically correct the image for a sharper impression. You can choose from 4 levels of correction, and save the image as a new file.



1 Choose [i-Contrast].

- Press the MENU button to choose [i-Contrast] from the ▶ tab, then press the (FUNC SET) button.

2 Choose an image.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.

3 Choose an option.

- Press the ◀▶ buttons to choose an option, then press the (FUNC SET) button.

4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 146.

- Under some conditions, the image may appear coarse or not be corrected properly.
- Repeatedly adjusting the same image may cause it to become coarse.

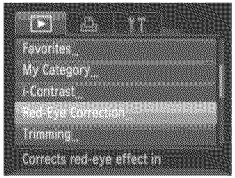
What if the image wasn't corrected by the [Auto] option as well as you would like?

Choose [Low], [Medium] or [High] and adjust the image.

Movies cannot be corrected.

Correcting the Red-Eye Effect

You can automatically correct red eyes in images and save them as new files.



1 Choose [Red-Eye Correction].

- Press the MENU button to choose [Red-Eye Correction] from the ▶ tab, then press the (FUNC SET) button.

2 Choose an image.

- Press the ◀▶ buttons to choose an image.

3 Correct the image.

- Press the (FUNC SET) button.
- Red-eye detected by the camera will be corrected and a frame will appear around the corrected portion.
- You can magnify or reduce the size of the image using the procedures in "Magnifying Images" (p. 125).

4 Save as a new image and display.

- Press the ▲▼◀▶ buttons to choose [New File], then press the (FUNC SET) button.
- The image will be saved as a new file.
- Follow Step 5 on p. 146.

- Some images may not be corrected properly.
- When [Overwrite] in Step 4 is chosen, the uncorrected image is overwritten with the corrected data, erasing the original image.
- Protected images cannot be overwritten.

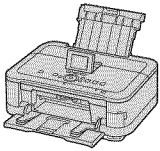
Movies cannot be corrected.

8

Printing

This chapter explains how to choose images for printing, and print using a Canon-brand PictBridge compliant printer (sold separately).

Canon-Brand PictBridge Compliant Printers

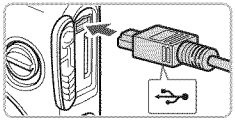


- This chapter uses Canon-brand SELPHY CP series printers in the explanations. The displayed screens and available functions will differ depending on the printer. Please also refer to the Printer User Guide.

Easy Print

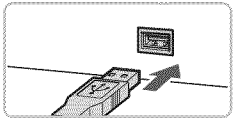
You can easily print the pictures you take by connecting the camera to a PictBridge compliant printer (sold separately) using the supplied interface cable (p. 2).

1 Turn off the camera and printer.

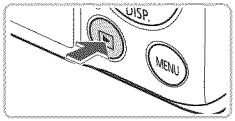


2 Connect the camera to the printer.

- Open the cover and insert the cable's small plug firmly into the camera terminal in the direction shown.
- Insert the cable's large plug into the printer. For connection details, refer to the user guide provided with the printer.



3 Turn on the printer.

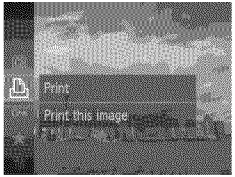


4 Turn on the camera.

- Press the ▶ button to turn on the camera.

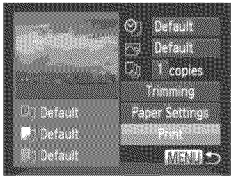
5 Choose an image.

- Press the ◀▶ buttons to choose an image.



6 Choose 🖨.

- After pressing the (FUNC SET) button, press the ▲▼ buttons to choose 🖨, then press the (FUNC SET) button again.

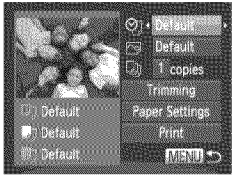


7 Print images.

- Press the ▲▼ buttons to choose [Print], then press the (FUNC SET) button.
- Printing will start.
- If you want to print additional images, repeat Steps 5 and 6 after printing has completed.
- After printing has completed, turn off the camera and printer, and unplug the interface cable.

- Refer to p. 39 for Canon-brand PictBridge compliant printers (sold separately).
- Index printing is not available on certain Canon-brand PictBridge compliant printers (sold separately).

Making Print Settings



1 Connect the camera to the printer.

- Follow Steps 1 – 6 on p. 152 to display the screen on the left.

2 Choose a menu option.

- Press the ▲▼ buttons to choose an option.

3 Choose the option settings.

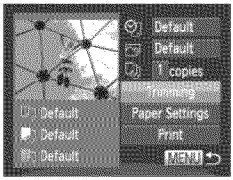
- Press the ◀▶ buttons to choose the option setting.

	Default	Follows the printer's settings.
	Date	Prints the date.
	File No.	Prints the file number.
	Both	Prints both the date and file number.
	Off	—
	Default	Follows the printer's settings.
	Off	—
	On	Uses shooting information to optimize print settings.
	Red-Eye1	Corrects red-eye.
	Red-Eye2*	Uses [NR], [Face] and [Red-Eye1] to correct the image.
	Vivid*	Greens in trees, and blues in the sky and ocean are enhanced to be more vivid.
	NR*	Reduces image noise.
	Vivid+NR*	Uses both [Vivid] and [NR] to correct the image.
	Face *	Corrects brightness for dark faces, such as in backlit shots.
	No. of Copies	Choose the number of copies.
Trimming	—	Choose the area for printing.
Paper Settings	—	Sets the paper size and layout.

* Only appears when connected to a PIXMA series printer.

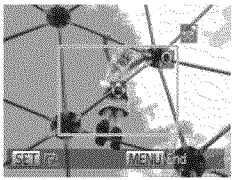
Trimming and Printing (Trimming)

You can cut out a portion of an image for printing.



1 Choose [Trimming].

- Follow Steps 1 – 2 on p. 154 to choose [Trimming], then press the (FUNC SET) button.
- A frame will appear around the portion of the image to be trimmed.



2 Choose the trimming area.

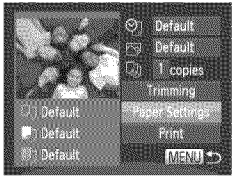
- If you move the zoom lever, you can change the frame size.
- Press the ▲▼◀▶ buttons to change the frame position.
- Press the (FUNC SET) button to rotate the frame.
- After pressing the MENU button, press the ▲▼ buttons to choose [OK], then press the (FUNC SET) button.

3 Print images.

- Follow Step 7 on p. 153 to print.

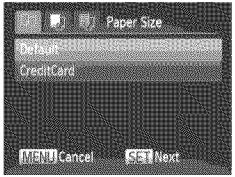
- You may not be able to trim images depending on the aspect ratio, or if they are too small.
- Trimming photos with embedded dates may not show the dates properly.

Choosing the Paper Size and Layout for Printing



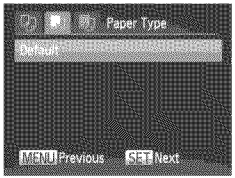
1 Choose [Paper Settings].

- Follow Steps 1 – 2 on p. 154 to choose [Paper Settings], then press the (FUNC SET) button.



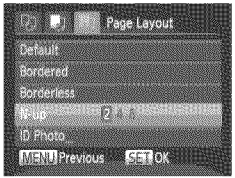
2 Choose a paper size.

- Press the ▲▼ buttons to choose an option, then press the (FUNC SET) button.



3 Choose the paper type.

- Press the ▲▼ buttons to choose an option, then press the (FUNC SET) button.



4 Choose the layout.

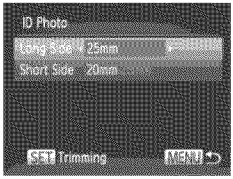
- Press the ▲▼ buttons to choose a layout, then press the (FUNC SET) button.
- Press the ◀▶ buttons to set the number of prints when [N-up] is chosen.

5 Print images.

Available Layout Options

Default	Follows the printer's settings.
Bordered	Prints with a border.
Borderless	Prints without a border.
N-up	Selects how many copies of an images are printed on a sheet.
ID Photo	Prints ID photos. Only images with the same resolution as the camera's L (Large) recording pixel setting and a 4:3 aspect ratio can be chosen.
Fixed Size	Choose the print size. Choose from 3.5 x 5 in., postcard and wide sized prints.

Printing ID Photos



1 Choose [ID Photo].

- Follow Steps 1 – 4 on p. 156 to choose [ID Photo], then press the (FUNC SET) button.

2 Choose the length and width.

- Press the ▲▼ buttons to choose an option.
- Press the ◀▶ buttons to choose the length, then press the (FUNC SET) button.

3 Choose the printing area.

- Follow Step 2 on p. 155 to choose the printing area.

4 Print images.

Printing Movies

1 Connect the camera to the printer.

- Follow Steps 1 – 6 on p. 152 to choose a movie and display the screen on the left.

2 Choose a printing method.

- Press the ▲▼ buttons to choose , then press the ◀▶ buttons to choose a printing method.

3 Print images.

Printing Methods for Movies

Single	Prints currently displayed scene as a still image.
Sequence	Prints a sequence of images from a specified scene on a single sheet of paper. If [Caption] is set to [On], you can print the folder number, file number, and the elapsed time for the frame at the same time.

- Pressing the (FUNC SET) button during printing will cancel printing.
- [ID Photo] and [Sequence] cannot be chosen on Canon brand PictBridge compliant printers from CP720/CP730 and earlier models.

Choosing Images for Printing (DPOF)

You can choose up to 998 images on a memory card for printing and specify settings such as the number of copies so that they can be printed together (p. 163) or processed at a photo developer service. These selection methods comply with the DPOF (Digital Print Order Format) standards.

Movies cannot be chosen.

Adding Images to a Print List with the FUNC. Menu

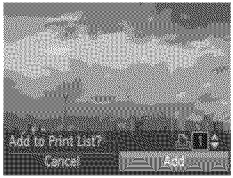
You can add images to the print list (DPOF) directly after shooting or during playback in the FUNC. menu.

1 Choose an image.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.

2 Choose 🖨 (movies will be excluded).

- Press the ▲▼ buttons to choose 🖨, then press the (FUNC SET) button.



3 Add images to the print list.

- Press the ▲▼ buttons to choose the number of prints, then press the ◀▶ buttons to choose [Add] and press the (FUNC SET) button.

Print Settings

You can set the print type, date and file number. These settings apply to all images chosen for printing.

1 Choose [Print Settings].

- Press the MENU button to choose [Print Settings] from the tab, then press the (FUNC SET) button.

2 Choose a setting.

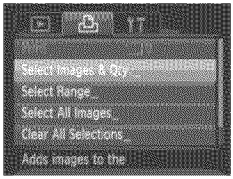
- Press the ▲▼ buttons to choose a menu item, then press the ◀▶ buttons to choose an option.
- Press the MENU button to complete the setting and restore the menu screen.

Print Type	Standard	Prints 1 image per page.
	Index	Prints several reduced size images per page.
	Both	Prints both standard and index formats.
Date	On	Prints the shooting date.
	Off	—
File No.	On	Prints the file number.
	Off	—
Clear DPOF data	On	Removes all print settings after printing.
	Off	—

- Some printers or photo developer services may not be able to reflect all of the settings in the prints.
- ! may appear when using a memory card with print settings set by a different camera. If you change the settings using this camera, all the previous settings may be overwritten.
- If [Date] is set to [On], some printers may print the date twice.

- With [Index] chosen, the [Date] and [File No.] options cannot be set to [On] at the same time.
- The date will be printed in the style set in the [Date/Time] function in the tab, which can be chosen after you press the MENU button (p. 19).

Choosing the Number of Copies



1 Choose [Select Images & Qty.].

- Press the MENU button to choose [Select Images & Qty.] from the tab, then press the (FUNC SET) button.

2 Choose an image.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.
- You will be able to set the number of print copies.
- If you choose images in [Index], ✓ appears on the screen. Press the (FUNC SET) button again to deselect the image. ✓ will disappear.

3 Set the number of prints.

- Press the ▲▼ buttons to set the number of prints (maximum 99).
- Repeat Steps 2 and 3 to choose other images and the number of prints for each.
- You cannot set the number of copies for index prints. You can only choose which images to print (as shown in Step 2).
- Press the MENU button to complete the setting and restore the menu screen.

Select Range

1 Choose [Select Range].

- Follow Step 1 on p. 161 to choose [Select Range], then press the (FUNC SET) button.

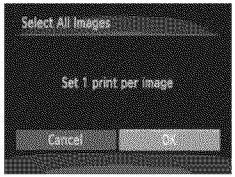
2 Choose images.

- Follow Steps 2 – 3 on p. 136 to choose images.

3 Make print settings.

- Press the ▲▼ buttons to choose [Order], then press the (FUNC SET) button.

Set All Images to Print Once



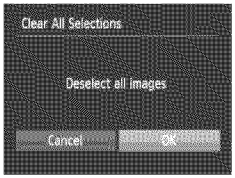
1 Choose [Select All Images].

- Follow Step 1 on p. 161 to choose [Select All Images], then press the (FUNC SET) button.

2 Make print settings.

- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button.

Clearing All Selections



1 Choose [Clear All Selections].

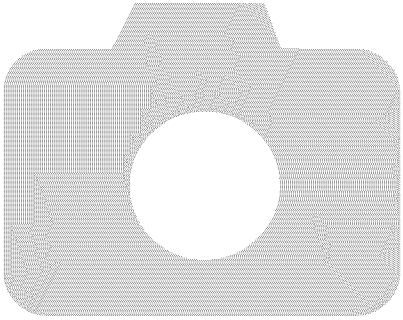
- Follow Step 1 on p. 161 to choose [Clear All Selections], then press the (FUNC SET) button.

2 All selections will be cleared.

- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button.

Printing chosen images (DPOF)

- When there are images added to the print list (pp. 159 – 162), the screen on the left will appear when you connect the camera to a PictBridge compliant printer. Press the ▲▼ buttons to choose [Print now], then press the (FUNC SET) button to easily print images added to the print list.
- If you stop the printer during printing and start again, it will start from the next print.



9

Customizing Camera Settings

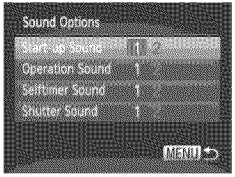
You can customize various settings to suit your shooting preferences. The first part of this chapter explains convenient and commonly used functions. The latter part explains how to change shooting and playback settings to suit your purposes.

Changing Camera Settings

You can customize convenient and commonly used functions from the tab (p. 47).

Changing Sounds

You can change each of the camera's operation sounds.



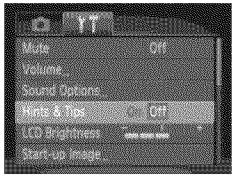
- Choose [Sound Options], then press the (FUNC SET) button.
- Press the ▲▼ buttons to choose a menu item.
- Press the ◀▶ buttons to choose an option.

1	Preset sounds (cannot be modified)
2	Preset sounds You can use the included software to change the sounds (p. 2).

Even if you change the shutter sound, it will have no effect in (p. 80).

Turning Off Hints & Tips

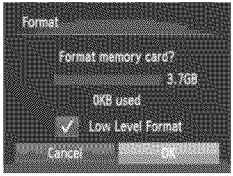
When you choose an item in the FUNC. menu (p. 46) or MENU (p. 47), a description of the function (hints and tips) is displayed. You can turn off this function.



- Choose [Hints & Tips], then press the ◀▶ buttons to choose [Off].

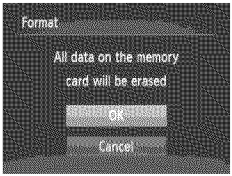
Low Level Memory Card Formatting

Perform low level formatting when [Memory card error] appears, the camera does not operate properly, you think that the recording/reading speed of a memory card has dropped, or recording suddenly stops while shooting a movie. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card.



1 Choose [Low Level Format].

- Choose [Format], then press the (FUNC SET) button.
- Press the ▲▼ buttons to choose [Low Level Format], then press the ◀▶ buttons to display ✓.
- Press the ▲▼◀▶ buttons to choose [OK], then press the (FUNC SET) button.



2 Start the low level format.

- Press the ▲▼ buttons to choose [OK], then press the (FUNC SET) button.
- Low level formatting starts.
- When low level formatting ends, [Memory card formatting complete] will appear on the screen.

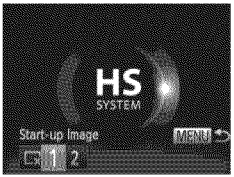
3 Complete the low level format.

- Press the (FUNC SET) button.

- Low level formatting may take longer than standard formatting (p. 22), since all recorded data is erased.
- You can stop a low level format of a memory card by choosing [Stop]. When stopping low level formatting, the data will be erased but the memory card can be used without problem.

Changing the Start-up Screen

You can change the start-up screen that appears when you turn on the camera.

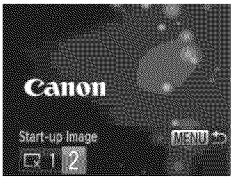


- Choose [Start-up Image], then press the (FUNC SET) button.
- Press the ◀▶ buttons to choose an option.

☐	No start-up image
1	Preset images (cannot be modified)
2	Preset images You can set recorded images, and use the included software to change the images.

Registering Recorded Images as the Start-up Screen

When you press the ▶ button and set the camera to Playback mode, you can register an image.



- Choose [Start-up Image], then press the (FUNC SET) button.
- Press the ◀▶ buttons to choose [2], then press the (FUNC SET) button.

- Press the ◀▶ buttons to choose an image, then press the (FUNC SET) button.
- Press the ◀▶ buttons to choose [OK], then press the (FUNC SET) button to complete registration.

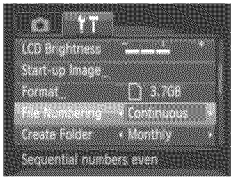
Any previously registered start-up image will be overwritten when registering a new start-up image.

Register the start-up image or sounds with the included software

The dedicated operation sounds and start-up images on the included software can be registered to the camera. Refer to the *Software Guide* for details.

Changing the File Number Assignment

Images you shoot are automatically assigned file numbers in the order they were taken, from 0001 – 9999, and saved to folders of up to 2,000 images. You can change the file number assignment.



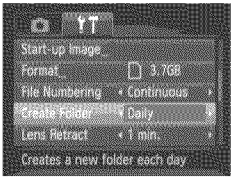
- Choose [File Numbering], then press the ◀▶ buttons to choose an option.

Continuous	Even if you shoot using a new memory card, the file numbers are assigned consecutively until an image with the number 9999 is taken/saved.
Auto Reset	If you replace the memory card with a new one, or a new folder is created, file numbering begins with 0001 again.

- If you use a memory card already containing images, the newly assigned file numbers may continue the existing numbering for both [Continuous] and [Auto Reset]. If you want to start over with file number 0001, format the memory card before use (p. 22).
- Refer to the *Software Guide* for information regarding folder structure or image types.

Creating Folders by Shooting Date

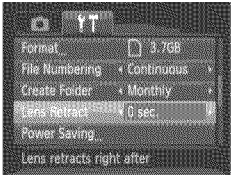
Images are saved into folders created each month, however, you can also create folders by shooting date.



- Choose [Create Folder], then press the ◀▶ buttons to choose [Daily].
- Images will be saved into folders created on each shooting date.

Changing the Lens Retract Time

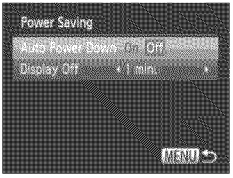
For safety reasons, the lens retracts about 1 minute after pressing the ▶ button when in a Shooting mode (p. 27). If you want the lens to retract immediately when you press the ▶ button, set the retract time to [0 sec.].



- Choose [Lens Retract], then press the ◀▶ buttons to choose [0 sec.].

Turning Off the Power Saving Function

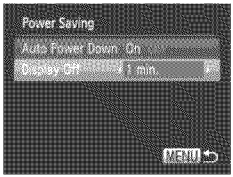
You can set the power saving function (p. 52) to [Off]. Setting it to [On] is recommended to save battery power.



- Choose [Power Saving], then press the (FUNC SET) button.
- Press the ▲▼ buttons to choose [Auto Power Down], then press the ◀▶ buttons to choose [Off].
- If you set the power saving function to [Off], be sure to turn the camera off after use.

Setting the Screen Shut-Off Time

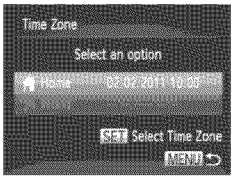
You can adjust the time the screen takes to shut off automatically (p. 52). This also works when [Auto Power Down] is set to [Off].



- Choose [Power Saving], then press the (FUNC SET) button.
- Press the ▲▼ buttons to choose [Display Off], then use the ◀▶ buttons to choose a time.
- In order to save battery power, you should choose less than [1 min.].

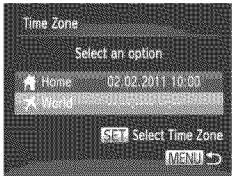
Using the World Clock

When traveling abroad, you can record images with local dates and times simply by switching the time zone setting. If you pre-register the destination time zones, you can enjoy the convenience of not having to switch the Date/ Time settings.



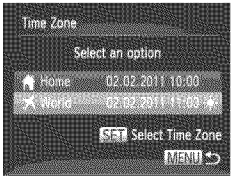
1 Set the home time zone.

- Choose [Time Zone], then press the (FUNC SET) button.
- When setting this for the first time, check the information that displays on the screen at the left, then press the (FUNC SET) button.
- Press the ◀▶ buttons to choose the home time zone.
- To set daylight saving time (adds 1 hour), press the ▲▼ buttons to choose ☀.
- Press the (FUNC SET) button.



2 Set the world time zone.

- Press the ▲▼ buttons to choose [✈ World], then press the (FUNC SET) button.
- Press the ◀▶ buttons to choose the world time zone.
- You can also set the daylight saving time as in Step 1.
- Press the (FUNC SET) button.



3 Choose the world time zone.

- Press the ▲▼ buttons to choose [✈ World], then press the MENU button.
- ✈ will appear on the shooting screen (p. 186).

If you change the date or time in the ✈ setting (p. 19), your [🏠 Home] time and date will automatically change.

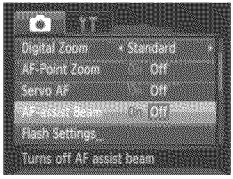
Changing Shooting Function Settings

If you set the mode switch to 📷, and the mode to **P**, you can change the settings in the 📷 tab (p. 47).

Before attempting to shoot using a function explained in this section in modes other than **P**, check if the function is available in those modes (pp. 196 – 197).

Turning Off the AF Assist Beam

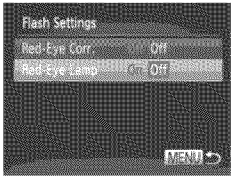
The lamp will automatically light to assist focusing in low light conditions when you press the shutter button halfway. You can turn off the lamp.



- Choose [AF-assist Beam], then press the ◀▶ buttons to choose [Off].

Turning Off the Red-Eye Reduction Function

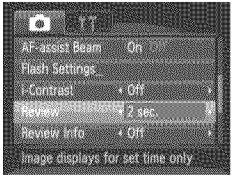
The red-eye reduction lamp lights in order to reduce the red-eye effect that occurs when shooting in dark conditions with the flash. You can turn off this function.



- Choose [Flash Settings], then press the (FUNC SET) button.
- Press the ▲▼ buttons to choose [Red-Eye Lamp], then press the ◀▶ buttons to choose [Off].

Changing the Image Display Time Right After Shooting

You can change the length of time the images display right after shooting.

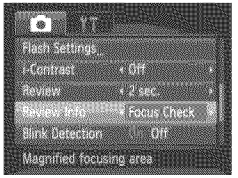


Choose [Review], then press the ◀▶ buttons to choose an option.

2 – 10 sec.	Displays images for the set time.
Hold	The image displays until you press the shutter button halfway.
Off	Images will not display.

Changing the Way the Image Displays Right After Shooting

You can change the way the image displays right after shooting.

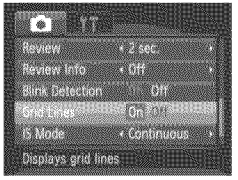


Choose [Review Info], then press the ◀▶ buttons to choose an option.

Off	Displays the image only.
Detailed	Displays detailed information (p. 188).
Focus Check	The area inside the AF frame is magnified, allowing you to check the focus. The procedure is the same as in "Checking the Focus" (p. 124).

Displaying Grid Lines

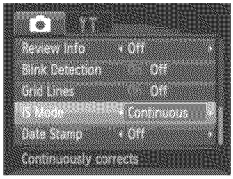
You can display grid lines on the screen for vertical and horizontal guidance while shooting.



Choose [Grid Lines], then press the ◀▶ buttons to choose [On].

Grid lines will not be recorded on the image.

Changing the IS-Mode Settings



Choose [IS Mode], then press the ◀▶ buttons to choose an option.

Continuous	Image stabilization is always on. You can confirm the effects directly on the display, which makes it easier to check the composition or focus. When shooting movies, the camera also reduces strong camera shake, for example when walking (Dynamic mode).
Shoot Only*	Image stabilization is only active at the moment of shooting.
Panning*	Image stabilization only counters up and down motion. This option is recommended for shooting objects moving horizontally.
Off	–

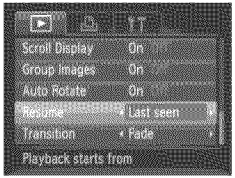
* Setting changes to [Continuous] when shooting movies.

- If camera shake is too strong, attach the camera to a tripod. You should also set the IS Mode to [Off] when the camera is attached to a tripod.
- When using [Panning], hold the camera horizontally to shoot. Image stabilization does not work when the camera is held vertically.

Changing Playback Function Settings

You can adjust the settings in the ▶ tab by pressing the ▶ button (p. 47).

Choosing the Image that First Displays in Playback

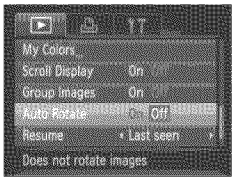


Choose [Resume], then press the ◀▶ buttons to choose an option.

Last seen	Resumes with the image last viewed.
Last shot	Resumes with the most recently shot image.

Turning Off the Auto Rotate Function

When you play back images on the camera, images shot in vertical orientation automatically rotate and display vertically. You can turn off this function.



Select [Auto Rotate], then press the ◀▶ buttons to select [Off].

- Images cannot be rotated (p. 145) if you have set [Auto Rotate] to [Off]. Rotated images will also appear in their original orientation.
- In Smart Shuffle (p. 128), even if [Auto Rotate] is set to [Off], images taken vertically will be displayed vertically, while rotated images will appear in their rotated orientation.

10

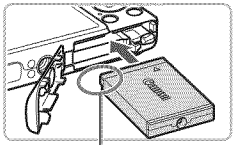
Useful Information

This chapter introduces how to use the AC adapter kit and Eye-Fi card (both sold separately), troubleshooting tips, and contains lists of functions and items that appear on the screen.

Using Household Power

If you use AC Adapter Kit ACK-DC60 (sold separately), you can use the camera without worrying about how much charge is left in the battery.

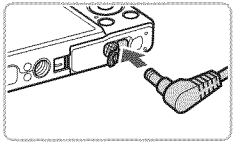
1 Turn off the camera.



Terminals

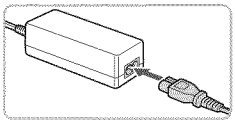
2 Insert the coupler.

- Follow Step 2 on p. 16 to open the cover, then insert the coupler as shown until it locks into place with a click.
- Follow Step 5 on p. 17 to close the cover.



3 Plug the cord into the coupler.

- Open the cover and fully insert the plug into the coupler.



4 Connect the power cord.

- Connect the power cord to the compact power adapter, then plug the other end into a power outlet.
- Turn the camera on to use it.
- After you finish, turn off the camera and unplug the power cord from the power outlet.

Do not unplug the plug or power cord with the camera turned on. This could erase images you have taken or damage the camera.

AC Adapter Kit ACK-DC10 (sold separately) can also be used.

Using an Eye-Fi Card

Before using an Eye-Fi card, be sure to check whether Eye-Fi card use is authorized in the country or territory of use (p. 16).

When you put a prepared Eye-Fi card into the camera, you can automatically transfer your images wirelessly to a computer, or upload them to a web service.
Image transfer is a function of the Eye-Fi card. For details on how to setup and use the card, and concerning problems transferring images, please refer to the Eye-Fi card user guide, or contact the manufacturer.

Please keep the following things in mind when using an Eye-Fi card.
- Even if you set [Eye-Fi trans.] to [Disable] (p. 180), the Eye-Fi card may transmit radio waves. Be sure to remove the Eye-Fi card from the camera before entering areas that prevent unauthorized transmission of radio waves, such as hospitals and airplanes.
- If you have trouble transferring images, check the card or computer settings. For details, refer to the user guide supplied with the card.
- Depending on the connection status of the wireless network, it may take time to transfer images, or image transfer may be interrupted.
- Due to its transfer function, the Eye-Fi card may become hot.
- Battery consumption will be quicker than in normal use.
- Camera operations will be slower than in normal use. This may be resolved by setting [Eye-Fi trans.] to [Disable].

If you put an Eye-Fi card into the camera, the connection status can be checked in the shooting screen (information display) and playback screen (simple information display).

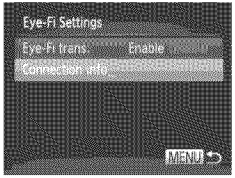
(Gray)	Not connected
(Flashing white)	Connecting
(White)	Transfer standby
(Animated)	Transferring
	Interrupted
	Error retrieving Eye-Fi card info (Turn the camera off and on again. If this continues to appear, there may be a problem with the card.)

will appear on transferred images.

- The power saving function does not work while transferring images (p. 52).
- Choosing will interrupt the Eye-Fi connection. Choosing another Shooting mode or entering Playback mode will reopen the Eye-Fi connection, but movies made with may be transferred again.

Checking Connection Information

You can check the Eye-Fi card's access point SSID, or connection status.



Choose [Connection info].

- Press the MENU button to choose [Eye-Fi Settings] from the tab, then press the (FUNC SET) button.
- Press the ▲▼ buttons to choose [Connection info], then press the (FUNC SET) button.
- The connection info screen will appear.

Disabling Eye-Fi Transfer

You can set the card to disable Eye-Fi transfer.

Choose [Disable] in [Eye-Fi trans.].

- Press the MENU button to choose [Eye-Fi Settings] from the tab, then press the (FUNC SET) button.
- Press the ▲▼ buttons to choose [Eye-Fi trans.], then press the ◀▶ buttons to choose [Disable].

What if [Eye-Fi Settings] does not appear?

[Eye-Fi Settings] will only appear when an Eye-Fi card is inserted in the camera.

If the Eye-Fi card has a write-protect tab, you will not be able to check the card's connection status, or set [Eye-Fi trans.] to [Disable] when the tab is in the locked position.

Troubleshooting

If you think there is a problem with the camera, first check the following. If the items below do not solve your problem, contact a Canon Customer Support Help Desk as listed on the included customer support list.

Power

You pressed the power button, but nothing happened.

- Confirm that the battery is the correct type, and is not depleted (p. 15).
- Confirm that the battery is properly inserted (p. 17).
- Confirm that the memory card/battery cover is securely closed (p. 17).
- If the battery terminals are dirty, battery performance will decrease. Clean the terminals with a cotton swab and re-insert the battery several times.

Battery is consumed quickly.

- Battery performance decreases at low temperatures. Warm the battery, for example, by placing it in your pocket with the terminal cover on.

Lens will not retract.

- Do not open the memory card/battery cover while the power is on. After closing the memory card/battery cover, turn the power on then back off (p. 17).

TV Output

Image is distorted or not showing on TV (p. 130).

Shooting

Cannot shoot.

- When in Playback mode (p. 21), press the shutter button halfway (p. 23).

Screen does not display properly in dark places (p. 45).

Screen does not display properly while shooting.

Please note, the following will not be recorded in still images, but will be recorded in movies.

- When shooting under fluorescent or LED lighting, the screen may flicker, and a horizontal bar may appear.

A flashing ϟ appears on the screen and the shot cannot be taken even though the shutter button was pressed fully (p. 26).

appears when the shutter button is pressed halfway (p. 54).

- Set the [IS mode] to [Continuous] (p. 175).
- Set the flash to ϟ (p. 85).
- Increase the ISO speed (p. 88).
- Attach the camera to a tripod. Additionally, you should set the [IS Mode] to [Off] when shooting with a tripod (p. 175).

Image is blurred.

- Press the shutter button halfway to focus on the subject, then press fully to shoot (p. 23).
- Shoot the subject within the focusing distance (p. 202).
- Set the [AF-assist Beam] to [On] (p. 173).
- Confirm that functions which you do not intend to use (macro, etc.) are not set.

- Shoot using the focus lock or AF lock (pp. 96, 99).

Even when you press the shutter button halfway, the AF frame does not appear, and the camera does not focus.

- If you center on the light and dark contrasting area of the subject and push the shutter button halfway, or repeatedly push the shutter button halfway, the AF frame will appear and the camera will focus.

Subject is too dark.

- Set the flash to ⚡ (p. 85).
- Correct the brightness with exposure compensation (p. 85).
- Adjust the image with i-Contrast (pp. 89, 149).
- Use spot metering or AE Lock to shoot (pp. 101, 102).

Subject is too bright (overexposed).

- Set the flash to ⊗ (p. 54).
- Correct the brightness with exposure compensation (p. 85).
- Use spot metering or AE Lock to shoot (pp. 101, 102).
- Reduce the light illuminating the subject.

Image is dark even though the flash fired (p. 26).

- Shoot within an appropriate distance for flash photography (p. 85).
- Increase the ISO speed (p. 88).

Image taken using the flash is too bright (overexposed).

- Shoot within an appropriate distance for flash photography (p. 85).
- Set the flash to ⊗ (p. 54).

White dots appear on the image when shooting with the flash.

- Light from the flash has reflected off dust particles or other objects in the air.

Image appears rough or grainy.

- Shoot with the ISO speed on a lower setting (p. 88).
- Depending on the Shooting mode, when shooting in a high ISO speed the image may appear rough or grainy (pp. 65, 66).

Eyes appear red (p. 104).

- Set the [Red-Eye Lamp] to [On] (p. 173). When shooting with the flash, the lamp (on the front of the camera) lights (p. 42), and for approximately 1 second while the camera is reducing red-eye, it is not possible to shoot. It is more effective if the subject is looking directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject.
- Correct images with red-eye correction (p. 150).

Recording images to the memory card takes a long time, or continuous shooting slows down.

- Perform a low-level format of the memory card in the camera (p. 167).

Cannot make settings for shooting functions or FUNC. menu.

- The items in which settings can be made differ depending on the shooting mode. Refer to “Functions Available in Each Shooting Mode” and “Shooting Menu” (pp. 190 – 197).

Shooting Movies

Correct shooting time does not display, or stops.

- Format the memory card in the camera, or use a memory card capable of recording at high speeds. Even when the shooting time does not display properly, the recorded video will be the length that it was actually shot (pp. 22, 30).

❶ appeared on the screen and shooting ended automatically.

The camera's internal memory was insufficient. Try one of the following:

- Perform a low-level format of the memory card in the camera (p. 167).
- Change the image quality setting (p. 112).
- Use a memory card capable of recording at high speeds (p. 112).

Subject appears distorted.

- The subject may appear distorted if it passes quickly in front of the camera while shooting.

Playback

Cannot play back images or movies.

- If the file name or folder structure is changed on a computer, you may not be able to play back images or movies. Refer to the *Software Guide* for information regarding folder structure or file names.

Playback stops, or audio cuts out.

- Use a memory card that has had a low-level format performed on it with this camera (p. 167).
- If you copy a movie to a memory card that reads slowly, playback may interrupt momentarily.
- Depending on its capabilities, when playing movies on a computer, frames may drop or the audio may cut out.

Computer

Cannot transfer images to a computer.

It may be possible to solve the problem when the camera is connected to a computer via cable by reducing the transfer speed.

- Press the ▶ button to enter Playback mode. Then press and hold the MENU button and press the ▲ and (FUNC SET) buttons together. In the screen that appears, press the ◀▶ buttons to choose [B] and press the (FUNC SET) button.

Eye-Fi Card

Cannot transfer images (p. 179).

List of Messages That Appear on the Screen

If error messages appear on the screen, try one of the following solutions.

No memory card

- The memory card is not installed in the correct direction. Install the memory card in the correct direction (p. 17).

Memory card locked

- The SD memory card, SDHC memory card, SDXC memory card or Eye-Fi card's write protect tab is set to "LOCK". Unlock the write protect tab (p. 16).

Cannot record!

- You attempted to shoot an image without a memory card. Install the memory card in the correct direction to shoot (p. 17).

Memory card error (p. 167)

- If the same message appears even when a formatted memory card is installed in the correct direction, contact a Canon Customer Support Help Desk (p. 17).

Insufficient space on card

- There is not enough free space on the memory card to shoot (pp. 24, 29, 53, 83, 107) or edit images (pp. 146 – 150). Erase the images (pp. 28, 138) to open space for new images, or insert an empty memory card (p. 16).

Change the battery pack. (p. 16)

No Image.

- There are no images recorded on the memory card that can be displayed.

Protected! (p. 134)

Unidentified Image/Incompatible JPEG/Image too large./Cannot play back AVI/RAW

- Unsupported images, or images with corrupted data cannot be displayed.
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not display.

Cannot magnify!/Cannot play back this content in Smart Shuffle/Cannot rotate/Cannot modify image/Cannot register this image!/Cannot modify/ Cannot assign to category/Unselectable image.

- Incompatible images cannot be magnified (p. 125), played back in Smart Shuffle (p. 128), tagged as favorites (p. 140), rotated (p. 145), edited (pp. 146 – 150), registered to the start-up screen (p. 168), categorized (p. 142), or added to a print list (p. 159).
- Grouped images cannot be processed (p. 80).
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not be magnified, played back in Smart Shuffle, tagged as favorites, rotated, edited, registered to the start-up screen, categorized, or added to a print list.
- Movies cannot be magnified (p. 125), played back in Smart Shuffle (p. 128), edited (pp. 146 – 150), added to a print list (p. 159), or registered to the start-up screen (p. 168).

Invalid selection range

- When choosing the selection range (pp. 136, 139, 144, 162), you tried to choose a starting image that was after the last image or you tried to choose an ending image that was before the starting image.

Exceeded selection limit

- You chose more than 998 images in print settings. Choose less than 998 images (p. 161).
- Print settings could not be saved correctly. Reduce the number of selected images and try again (p. 161).
- You chose 501 or more images in Protect (p. 134), Erase (p. 138), Favorites (p. 140), My Category (p. 142) or Print Settings (p. 159).

Communication error

- Images could not be transferred to the computer or printed due to the large amount of images (approx. 1000) stored on the memory card. Use a commercially available USB card reader to transfer the images. Insert the memory card into the printer's card slot to print.

Naming error!

- The folder or image could not be created because there is an image with the same file name as the folder or image that the camera is attempting to create, or the highest possible file number has already been reached. In the menu, change [File Numbering] to [Auto Reset] (p. 169) or format the memory card (p. 22).

Lens Error

- This error can occur if you hold the lens while it is in motion or when using it in a location with excessive dust or sand in the air.
- If this error message continues to appear, contact a Canon Customer Support Help Desk as there may be a problem with the lens.

A camera error was detected (Error number)

- If an error code appears directly after taking a picture, the shot may not have been recorded. Check the image in Playback mode.
- If this error code reappears, note the Error number (Exx) and contact a Canon Customer Support Help Desk as there may be a problem with the camera.

File Error

- Photos from other cameras or images that have been altered using computer software may not be printable.

Print error

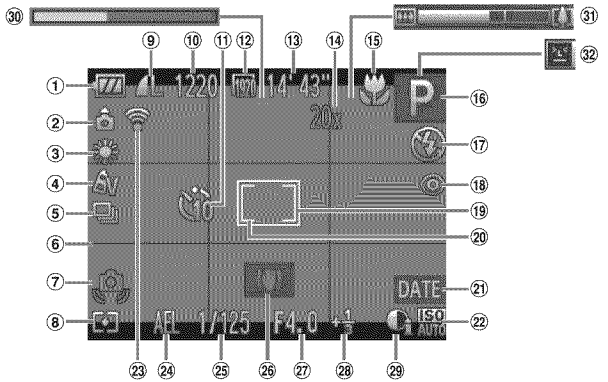
- Check the paper size settings. If this message appears when the settings are correct, turn the printer off and back on, then make the settings again.

Ink absorber full

- Contact a Canon Customer Support Help Desk for an ink absorber replacement.

Information Displayed on the Screen

Shooting (Information Display)



① Battery Charge Indicator (p. 15)
② Camera Orientation*
③ White Balance (p. 86)
④ My Colors (p. 92)
⑤ Drive Mode (p. 91)
⑥ Grid Lines (p. 174)
⑦ Camera Shake Warning (p. 26)
⑧ Metering Method (p. 101)
⑨ Compression (Image Quality) (p. 61) / Recording Pixels (pp. 61, 112)
⑩ Recordable Shots (p. 62)
⑪ Self-Timer (pp. 58, 59)
⑫ Image Quality (Movies) (p. 112)
⑬ Remaining Time (p. 112)
⑭ Digital Zoom Magnification (p. 55) / Digital Tele-converter (p. 56)
⑮ Focusing Range (p. 94), AF Lock (p. 99)
⑯ Shooting Mode (p. 190), Scene Icon (p. 187)
⑰ Flash Mode (pp. 54, 85, 103)
⑱ Red-Eye Correction (p. 104)
⑲ AF Frame (p. 95)
⑳ Spot AE Point Frame (p. 101)
㉑ Date Stamp (p. 57)
㉒ ISO Speed (p. 88)
㉓ Eye-Fi Connection Status (p. 179)
㉔ AE Lock (p. 102), FE Lock (p. 102)
㉕ Shutter Speed
㉖ Image Stabilizer (p. 175) / Time Zone (p. 171)
㉗ Aperture Value
㉘ Exposure Compensation Amount (p. 85)
㉙ i-Contrast (p. 89)
㉚ Super Slow Motion Movie Shooting Time (p. 110)
㉛ Zoom Bar (p. 25)
㉜ Blink Detection (p. 105)

* : Standard, : Held vertically
When shooting, the camera detects if it is held vertically or horizontally, and adjusts settings accordingly for the best shot. It also detects orientation during playback, so you can hold the camera in either orientation and it will automatically rotate images for correct viewing.
This function may not operate correctly when the camera is pointed straight up or down.

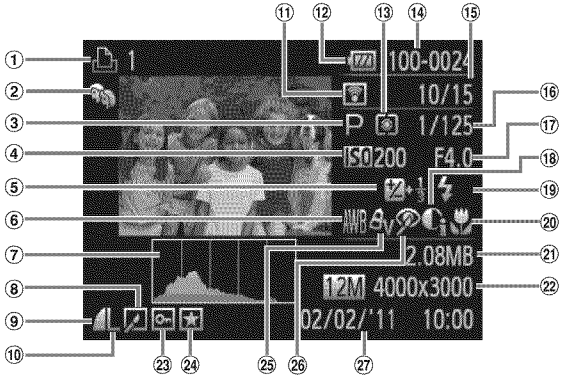
Scene Icons

In AUTO mode, the camera displays an icon for the scene it has determined and then automatically focuses and selects the optimum settings for subject brightness and color.

Subject / Background	People			Non-Human Subjects			Icon Background Color
		When Moving	With Strong Facial Shadows		When Moving	When Close	
Bright							Gray
Backlit			—				
Including Blue Skies							Light Blue
Backlit			—				
Sunsets	—					—	Orange
Spotlights							Dark Blue
Dark							
When Using Tripod	*	—		*		—	

* Appears when the scene is dark and the camera is attached to a tripod.

Playback (Detailed Information Display)



① Movies (p. 31), High-speed Burst (p. 80), Print List (p. 159)
② My Category (p. 142)
③ Shooting Mode (p. 190)
④ ISO Speed (p. 88), Playback Speed (Movies) (p. 109)
⑤ Exposure Compensation Amount (p. 85)
⑥ White Balance (p. 86)
⑦ Histogram (p. 45)
⑧ Group Playback (p. 126), Image Editing (pp. 146 – 150)
⑨ Compression (Image Quality) (p. 61)
⑩ Recording Pixels (pp. 61, 112), MOV (Movies)
⑪ Eye-Fi Transfer Complete (p. 179)
⑫ Battery Charge Indicator (p. 15)
⑬ Metering Method (p. 101)
⑭ Folder Number – File Number (p. 169)
⑮ Displayed image number / Total number of images
⑯ Shutter Speed (Still Images), Image Quality / Frame Rate (Movies) (p. 112)
⑰ Aperture Value
⑱ i-Contrast (pp. 89, 149)
⑲ Flash (p. 85)
⑳ Focusing Range (p. 94)
㉑ File Size (pp. 62, 112)
㉒ Still Images: Recording Pixels (p. 61)
Movies: Movie Length (p. 112)
㉓ Protect (p. 134)
㉔ Favorites (p. 140)
㉕ My Colors (pp. 92, 148)
㉖ Red-Eye Correction (p. 150)
㉗ Shooting Date and Time (p. 19)

Summary of Movie Control Panel in "Viewing Movies" (p. 31)

⮌	Exit
▶	Playback
▷	Slow motion playback (You can use the ◀▶ buttons to adjust the speed. Sound will not play back.)
⏮	Skip backward* (Continues to skip backward if you hold down the (FUNC SET) button.)
◀‖	Previous frame (Rewind if you hold down the (FUNC SET) button.)
‖▶	Next frame (Fast forward if you hold down the (FUNC SET) button.)
⏭	Skip forward* (Continues to skip forward if you hold down the (FUNC SET) button.)
✂	Edit (p. 114)
🖨	Appears when connected to a PictBridge compliant printer (p. 152).

* Displays the frame approx. 4 sec. before or after the current frame.

You can skip forward and skip backward during movie playback by pressing the ◀▶ buttons.

Functions Available in Each Shooting

Function \ Shooting Modes		AUTO	P						
Exposure Compensation (p. 85)		—	O	O	O	O	O	O	O
AE Lock/FE Lock*1 (p. 102)		—	O	O	—	—	—	—	—
Focusing Range (p. 94)		O	O	O	O	O	O	O	O
		—	O	O	O	—	—	—	—
		—	O	O	O	—	—	—	—
Flash (pp. 54, 85, 103)		O	O	O	O	O	O	O	O
		—	O	O	O	O	O	O	O
		*2	O	O	—	—	—	—	—
		O	O	O	O	O	O	O	O
AF Lock (p. 99)		—	O	O	—	—	—	—	—
Screen Display (p. 44)	No Information Display	O	O	O	O	O	—	—	—
	Information Display	O	O	O	O	O	O	O	O

FUNC. Menu									
Metering Method (p. 101)		O	O	O	O	O	O	O	O
		—	O	O	—	—	—	—	—
		—	O	O	—	—	—	—	—
My Colors (p. 92)		O	O	O	O	O	O	O	O
		—	O	O	—	—	O	O	O
		—	O	O	—	—	O	O	O
	*4	—	O	O	—	—	O	O	O
	*4	—	O	O	—	—	O	O	O
		—	O	O	—	—	O	O	O
		—	O	O	—	—	O	O	O
		—	O	O	—	—	O	O	O
		—	O	O	—	—	O	O	O
		—	O	O	—	—	O	O	O
	*5	—	O	O	—	—	O	O	O

O	—	O	O	O	O	O	O	O	—	—	O	O	O	O	—	O	—
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O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
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—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	*3	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O	—	—
O	O	O	O	—	—	—	—	O	O	—	O	O	O	O	O	—	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

FUNC. Menu																	
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
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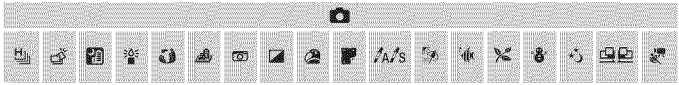
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O	O	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O	O	—

O Selectable, or set automatically. – Not selectable.

Function \ Shooting Modes	AUTO	P						
FUNC. Menu								
White Balance (p. 86)	AWB	O	O	O	O	O	O	O	O
	☀	—	O	O	—	—	O	O	O
	☁	—	O	O	—	—	O	O	O
	💡	—	O	O	—	—	O	O	O
	🌈	—	O	O	—	—	O	O	O
	🌈	—	O	O	—	—	O	O	O
	🛋 *6	—	O	O	—	—	O	O	O
Underwater White Balance Compensation (p. 87)		—	—	—	—	—	—	—	—
ISO Speed (p. 88)	ISO AUTO	O	O	O	O	O	O	O	O
	ISO 100	—	O	O	—	—	—	—	—
	ISO 200	—	O	O	—	—	—	—	—
	ISO 400	—	O	O	—	—	—	—	—
	ISO 800	—	O	O	—	—	—	—	—
	ISO 1600	—	O	O	—	—	—	—	—
	ISO 3200	—	O	O	—	—	—	—	—
Self-Timer (pp. 58, 59)		O	O	O	O	O	O	O	O
		O	O	O	O	O	—	—	—
		O	O	O	O	O	—	—	—
		O	O	O	O	O	—	—	—
Self-Timer Settings (p. 59)	Delay *7	O	O	O	O	O	—	—	—
	Shots *8	O	O	—	O	O	—	—	—
Drive Mode (p. 91)	□	O	O	O	O	O	O	O	O
		—	O	—	O	O	—	—	—
Aspect Ratio (Still Images) (p. 90)	16:9 3:2 4:3 1:1	O	O	—	O	O	O	O	O
Recording Pixels (p. 61)	L	O	O	O	O	O	O	O	O
	M1	O	O	O	O	O	O	O	O
	M2	O	O	O	O	O	O	O	O
	M	—	—	—	—	—	—	—	—
	S	O	O	O	O	O	O	O	O



FUNC. Menu																	
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
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O	O	—	O	—	—	—	—	—	—	—	—	—	—	—	O	O	—
O	O	—	O	—	—	—	—	—	—	—	—	—	—	—	O	O	—
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O	O	—	O	—	—	—	—	—	—	—	—	O	—	—	O	O	—
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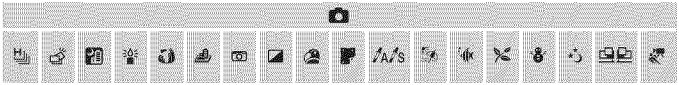
—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	—
—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	—	O	O	O	O	O	O	O	O	O	O	O	O	—	—	—
—	—	—	—	—	*9	—	O	O	O	O	O	O	O	O	O	—	—
—	—	O	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	O	O	O	O	O	O	O	O	O	O	O
O	O	—	O	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	O	O	O	O	O	O	O	O	O	O	O

O Selectable, or set automatically. – Not selectable.

Function \ Shooting Modes	AUTO	P						
FUNC. Menu								
Compression Ratio (p. 61)		O	O	O	O	O	O	O	O
		O	O	O	O	O	O	O	O
Image Quality (Movies) (pp. 110, 112)	1920	O	O	O	O	O	O	O	O
	1280	O	O	O	O	O	O	O	O
	640	O	O	O	O	O	O	O	O
	320	O	O	O	O	O	O	O	O
	640	—	—	—	—	—	—	—	—
	1720	—	—	—	—	—	—	—	—

*1 FE Lock not available when set to .
*2 Not selectable but switches to depending on the circumstances.
*3 Not selectable but switches to when the flash fires.
*4 White balance is not selectable.
*5 Contrast, sharpness, color saturation, red, green, blue, and skin tone can be set in 5 levels.
*6 Not available in and .
*7 Cannot be set to 0 seconds when in modes where the number of shots cannot be set.
*8 Fixed to 1 shot when in modes where the number of shots cannot be set.
*9 Only 4:3 and 16:9 are available.



FUNC. Menu																
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	—	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	—	O	O	O	O	O	O	O	O	O	O	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O

O Selectable, or set automatically. – Not selectable.

Shooting Menu

Function	Shooting Modes		AUTO	P						
AF Frame (p. 95)	Face AiAF*1		O	O	O	O	O	O	O	O
	Tracking AF		*2	O	—	O	O	—	—	—
	Center		—	O	O	O	O	—	—	—
AF Frame Size*3 (p. 96)	Normal		—	O	O	O	O	—	—	—
	Small		—	O	O	O	O	—	—	—
Digital Zoom (p. 55)	Standard		O	O	O	O	O	O	O	O
	Off		O	O	O	O	O	O	O	O
	1.5x		O	O	O	O	O	O	O	O
	2.0x		O	O	O	O	O	O	O	O
AF-Point Zoom (p. 98)	On		O	O	—	O	—	O	O	O
	Off		O	O	O	O	O	O	O	O
Servo AF (p. 100)	On		—	O	—	O	O	—	—	—
	Off*4		O	O	O	O	—	O	O	O
AF-assist Beam (p. 173)	On		O	O	O	O	O	O	O	O
	Off		O	O	O	O	O	—	O	O
Flash Settings (pp. 104, 174)	Red-Eye Corr.	On	O	O	O	O	O	O	O	O
		Off	O	O	O	O	O	O	O	O
	Red-Eye Lamp	On	O	O	O	O	O	O	O	O
		Off	O	O	O	O	O	O	O	O
i-Contrast (p. 89)	Off		—	O	O	O	O	O	O	O
	Auto		O	O	O	—	—	—	—	—
Review (p. 174)	Off		O	O	O	O	O	O	O	O
	2 sec.		O	O	O	O	O	O	O	O
	3 – 10 sec.		O	O	O	O	O	O	O	O
	Hold		O	O	O	O	O	O	O	O
Review Info (p. 174)	Off		O	O	O	O	O	O	O	O
	Detailed		O	O	O	O	O	O	O	O
	Focus Check		O	O	O	O	O	O	O	O
Blink Detection (p. 105)	On		O	O	O	O	O	O	O	O
	Off		O	O	O	O	O	O	O	O
Grid Lines (p. 174)	On		O	O	O	O	O	O	O	O
	Off		O	O	O	O	O	O	O	O
IS Mode (p. 175)	Continuous		O	O	O	O	O	O	O	O
	Shoot Only		—	O	O	O	O	O	O	O
	Panning		—	O	O	O	O	O	O	O
	Off		—	O	O	O	O	O	O	O
Date Stamp (p. 57)	Off		O	O	O	O	O	O	O	O
	Date		O	O	O	O	O	O	O	O
	Date & Time		O	O	O	O	O	O	O	O

*1 Operation differs depending on the shooting mode when faces are not detected.
*2 Only available by pressing ▲ button (p. 27). *3 Available when the AF frame is set to [Center].

O	O	O	O	—	—	O	O	O	O	O	O	O	O	O	O	—	O
O	—	—	O	—	—	—	O	O	O	O	O	O	O	O	O	—	—
O	—	—	O	O	—	O	O	O	O	O	O	O	O	O	O	O	O
O	—	—	O	O	—	O	O	O	O	O	O	O	O	O	O	O	O
O	—	—	O	—	—	O	O	O	O	O	O	O	O	O	O	—	O
—	—	—	—	—	—	—	O	O	O	—	O	O	O	O	O	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	O	O	O	—	O	O	O	O	O	—	—
—	—	—	—	—	—	—	O	O	O	—	O	O	O	O	O	—	—
O	O	—	O	—	—	—	O	O	O	O	O	O	O	O	O	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	O	—	—	—	O	O	O	O	O	O	O	O	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	O	—	—	—	—	—	—	—	O	O	O	O	O	—	—
—	—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
—	—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
—	—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
—	—	O	—	O	O	O	O	O	O	O	O	—	O	O	O	O	—
O	O	—	O	—	—	—	—	—	—	—	—	O	—	—	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	—
—	—	—	O	—	—	—	—	O	O	O	O	—	O	O	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—
O	O	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	—
—	—	—	—	—	—	—	—	—	—	—	O	O	O	O	O	—	—

*4 [On] when moving people are detected in AUTO.

O Selectable, or set automatically. – Not selectable.

Set up Menu

Item	Content	Ref. Page
Mute	On/Off*	p. 48
Volume	Set all operation sounds (5 levels).	p. 49
Sound Options	Set the sounds for each camera operation.	p. 166
Hints & Tips	On*/Off	p. 166
LCD Brightness	Sets screen brightness (5 levels).	p. 50
Start-up Image	Add an image as a start-up image.	p. 168
Format	Formats memory card, erasing all data	pp. 22, 167
File Numbering	Continuous*/Auto Reset	p. 169
Create Folder	Monthly*/Daily	p. 170
Lens Retract	1 min.*/0 sec.	p. 170
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec./1*, 2 or 3 min.	pp. 52, 170, 171
Time Zone	Home*/World	p. 171
Date/Time	Date and time settings	p. 20
Video System	NTSC/PAL	p. 130
Ctrl via HDMI	Enable/Disable*	p. 132
Eye-Fi Settings	Eye-Fi connection settings (only appears when Eye-Fi card is inserted)	p. 179
Language	Choose display language.	p. 21
Reset All	Returns camera to default settings.	p. 51

* Default setting

Playback Menu

Item	Content	Ref. Page
Slideshow	Plays back images automatically.	p. 122
Erase	Erases images (Select, Select Range, All Images).	p. 138
Protect	Protects images (Select, Select Range, All Images).	p. 134
Rotate	Rotates images.	p. 145
Favorites	Tags or untags images as favorites.	p. 140
My Category	Categorizes images (Select, Select Range).	p. 142
i-Contrast	Corrects dark portions and contrast in still images.	p. 149
Red-Eye Correction	Corrects red eyes in still images.	p. 150
Trimming	Trims portions of still images.	p. 147
Resize	Resizes and saves still images.	p. 146
My Colors	Adjusts colors in still images.	p. 148
Scroll Display	On*/Off	p. 118
Group Images	On*/Off	p. 127
Auto Rotate	On*/Off	p. 176
Resume	Last seen*/Last shot	p. 176
Transition	Fade*/Scroll/Slide/Off	p. 129

* Default setting

Print Menu

Item	Content	Ref. Page
Print	Displays printing screen (When connected to a printer).	—
Select Images & Qty.	Chooses individual images for printing.	p. 161
Select Range	Chooses starting and ending images for printing.	p. 162
Select All Images	Chooses all images for printing.	p. 162
Clear All Selections	Cancels all settings for printing.	p. 162
Print Settings	Sets the printing style.	p. 160

Playback Mode FUNC. Menu

Item	Content	Ref. Page
Rotate	Rotates displayed image.	p. 145
Print Settings	Selects or clears settings for printing displayed image ([Print] appears when the camera is connected to the printer).	p. 159
Protect	Protects/unlocks displayed image.	p. 134
Favorites	Tags/untags displayed image as favorites.	p. 140
Erase	Erases displayed image.	p. 138
Group Playback	Plays back images taken with High-speed Burst one by one.	p. 126
Movie Playback	Starts movie playback.	p. 31
Movie Digest Playback	Plays back movies made in the Movie Digest mode.	p. 119
Smart Shuffle	Starts Smart Shuffle.	p. 128
Filtered Playback	Filters/cancels filter for displayed image.	p. 120
Slideshow	Plays back images automatically.	p. 122
My Category	Categorizes images.	p. 142

Handling Precautions

- This camera is a high-precision electronic device. Do not drop it or subject it to strong impacts.
- Never place the camera close to magnets, motors or other devices that generate strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.
- If water droplets or dirt become stuck on the camera or screen, wipe with a dry soft cloth or eyeglass wiper. Do not rub or apply force.
- Never use cleaners containing organic solvents to wipe the camera or screen.
- Use a commercially available blower brush to remove dust from the lens. For stubborn dirt contact a Canon Customer Support Help Desk as listed on the customer support leaflet supplied with your camera.
- When you move the camera rapidly from cold to hot temperatures, condensation may form on the internal or external surfaces of the camera. To avoid condensation, put the camera in an airtight, resealable plastic bag and let it adjust to temperature changes slowly before removing it from the bag.
- If condensation has formed on the camera, stop using it immediately, as continued use may damage the camera. Remove the battery and memory card, and wait until the moisture has completely evaporated before resuming use.

Specifications

Image Sensor
- Camera Effective Pixels: Approx. 12.1 million pixels

Lens
- Focal Length: 5x zoom: 4.3 (W) – 21.5 (T) mm (35mm film equivalent: 24 (W) – 120 (T) mm)
- Focusing Range: 3 cm (1.2 in.) – infinity (W), 90 cm (3.0 ft.) – infinity (T) • Macro 3 – 50 cm (W) (1.2 in. – 1.6 ft. (W))

Image Stabilizer System: Lens-shift type

Imaging Processor: DIGIC 4

LCD Monitor
- Type: TFT color (wide viewing angle type)
- Size: 2.7 type
- Effective Pixels: Approx. 230,000 dots
- Aspect Ratio: 4:3
- Features: Brightness adjustment (5 levels), Quick-bright LCD

Focus
- Control System: Autofocus: Single (Continuous in Auto mode), Servo AF/ Servo AE
- AF Frame: Face AiAF, Tracking AF, Center

Metering System: Evaluative, Center-weighted average, Spot

Exposure Compensation (Still Images) / Exposure Shift (Movies): ±2 stops in 1/3-stop increments

ISO Speed (Standard Output Sensitivity, Recommended Exposure Index): Auto, ISO 100/200/400/800/1600/3200 (In P mode)

White Balance: Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom

Shutter Speed: 1 – 1/2000 sec.
15 – 1/2000 sec. (Total shutter speed range)

Aperture
- Type: Circular (Used together with ND filter)
- f/number: f/2.7 – f/8.0 (W), f/5.9 – f/17 (T)

Flash
- Modes: Auto, on, Slow Synchro, off
- Range: 50 cm – 3.5 m (W), 90 cm – 2.0 m (T) (1.6 – 11.5 ft. (W), 3.0 – 6.6 ft. (T))

Shooting Modes.....Auto*1, P, Movie Digest, Portrait, Kids&Pets, Smart Shutter*2, High-speed Burst, Best Image Selection, Handheld Night Scene, Low Light, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Monochrome, Super Vivid, Poster Effect, Color Accent, Color Swap, Beach, Underwater, Foliage, Snow, Long Shutter, Stitch Assist, Super Slow Motion Movie
• Movies are recorded by pressing the movie button.
*1 Smart Auto also available for movies
*2 Smile, Wink Self-timer, Face Self-timer

Digital Zoom .....Still images/Movies: Approx. 4.0x
(up to approx. 20x in combination with the optical zoom)
Safety Zoom, Digital tele-converter

Continuous Shooting
Mode .....Normal
Speed (Normal).....Approx. 3.4 shots/sec. (In P mode)
Approx. 8.0 shots/sec. (In High-speed Burst mode)

Number of Shots (Approximate)
(CIPA compliant) .....Approx. 220

Recording Media .....SD memory card, SDHC memory card, SDXC memory card, MultiMediaCard, MMC*plus* card, HC MM*Cplus* card

File Format .....Design rule for Camera File system, DPOF (Version 1.1) compliant

Data Type
Still Images.....Exif 2.3 (JPEG)
Movies.....Movies: MOV (Image data: H.264; Audio data: Linear PCM (stereo))

Number of Recording Pixels
Still Images.....16:9
Large: 4000 x 2248, Medium 1: 2816 x 1584, Medium 2: 1920 x 1080, Small: 640 x 360
3:2
Large: 4000 x 2664, Medium 1: 2816 x 1880, Medium 2: 1600 x 1064, Small: 640 x 424
4:3
Large: 4000 x 3000, Medium 1: 2816 x 2112, Medium 2: 1600 x 1200, Small: 640 x 480
1:1
Large: 2992 x 2992, Medium 1: 2112 x 2112, Medium 2: 1200 x 1200, Small: 480 x 480

Movies	Super Slow Motion Movie: 640 x 480 (120 fps*1 when shooting, 30 fps*2 during playback), 320 x 240 (240 fps*3 when shooting, 30 fps*2 during playback) Miniature Effect: 1280 x 720*4, 640 x 480*4 Movies Other than Super Slow Motion Movie and Miniature Effect: 1920 x 1080 pixels (24 fps*5), 1280 x 720 (30 fps*2), 640 x 480 (30 fps*2), 320 x 240 (30 fps*2) *1 Actual frame rate is 119.88 fps. *2 Actual frame rate is 29.97 fps. *3 Actual frame rate is 239.76 fps. *4 Shooting: 6 fps/3 fps/1.5 fps, Playback: 30 fps*2 *5 Actual frame rate is 23.976 fps.
Interface	Hi-Speed USB HDMI output Analog audio output (stereo) Analog video output (NTSC/PAL)
Direct Print Standard	PictBridge
Power Source	Battery Pack NB-4L Compact Power Adapter CA-DC10 (when used with DC Coupler DR-10)
Dimensions (CIPA compliant)	92.2 x 55.9 x 19.5 mm (3.63 x 2.20 x 0.77 in.)
Weight (CIPA compliant)	Approx. 141 g (4.97 oz.) (Including the battery and memory card) Approx. 122 g (4.30 oz.) (camera body only)

Battery Pack NB-4L

Format	Rechargeable Lithium-ion Battery Pack
Nominal Voltage	3.7 V DC
Nominal Capacity	760 mAh
Charge Cycles	Approx. 300 times
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	35.4 x 40.3 x 5.9 mm (1.39 x 1.59 x 0.23 in.)
Weight	Approx. 17 g (Approx. 0.60 oz.)

Battery Charger CB-2LV/CB-2LVE

Rated Input	100 V – 240 V AC (50/60 Hz), 0.1 A (100 V) – 0.06 A (240 V)
Rated Output	4.2 V DC, 0.65 A
Charging Time	Approx. 1 hr. 30 min. (when using NB-4L)
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	53.0 x 86.0 x 19.5 mm (2.09 x 3.39 x 0.77 in.)
Weight	Approx. 60 g (Approx. 2.12 oz.) (CB-2LV) Approx. 55 g (Approx. 1.94 oz.) (CB-2LVE, excluding power cord)

- All data is based on tests by Canon.
- Camera specifications or appearance are subject to change without notice.

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